

Claims

1. A halogen-free, flame-resistant wrapping foil, characterized in that the wrapping foil is composed of polyolefin and contains more than 120 phr of metal hydroxide, preferably aluminum hydroxide and more preferably magnesium hydroxide.
2. The wrapping foil of claim 1, characterized in that the metal-hydroxide content is more than 150 phr.
3. The wrapping foil of claim 1 or 2, characterized in that the fraction of carbon black is at least 5 phr, preferably at least 10 phr, the carbon black preferably having a pH of 6 to 8.
4. The wrapping foil of at least one of the preceding claims, characterized in that the wrapping foil comprises at least one polypropylene having a flexural modulus of less than 900 MPa, preferably of 500 or less, and more preferably of 80 MPa or less, and/or a crystallite melting point of between 120°C and 166°C, preferably below 148°C, more preferably below 145°C.
5. The wrapping foil of at least one of the preceding claims, characterized in that the thickness of the wrapping foil is 30 to 180 µm, particularly 50 to 150 µm, more particularly 55 to 100 µm, the force in machine direction at 1% elongation has a value of 0.6 to 5 N/cm, particularly 1 to 3 N/cm, the force at 100% elongation has a value of 2 to 20 N/cm, particularly 3 to 10 N/cm, and/or the crystallite melting point of the polypropylene copolymer is less than 166°C.
6. The wrapping foil of at least one of the preceding claims, characterized in that the wrapping foil is free from red phosphorus and the chemically bonded phosphorus content preferably does not exceed 0.5 phr.

7. The wrapping foil of at least one of the preceding claims, characterized in that it comprises not only the preferred polypropylene polymer but also ethylene-propylene copolymers from the classes of EPM and EPDM polymers.
- 5 8. The wrapping foil of at least one of the preceding claims, characterized in that it has on one or both sides, especially one side, a layer of adhesive, which is preferably based on polyisoprene, ethylene-vinyl acetate copolymer and/or polyacrylate, and if desired has a primer layer between film and adhesive layer,
10 the amount of the adhesive layer being in each case 10 to 40 g/m², preferably 18 to 28 g/m²,
the bond strength to steel being 1.5 to 3 N/cm,
the unwind force being 1.2 to 6.0 N/cm at 300 mm/min unwind speed, preferably 1.6 to 4.0 N/cm, more preferably 1.8 to 2.5 N/cm, and/or
the holding power being more than 150 min.
- 15 9. The wrapping foil of at least one of the preceding claims, characterized in that it comprises a solvent-free pressure-sensitive adhesive which is produced by coextrusion, melt coating or dispersion coating, preferably a pressure-sensitive dispersion adhesive and in particular one based on polyacrylate, this adhesive being
20 joined to the surface of the carrier foil by means of flame or corona pretreatment or of an adhesion promoter layer which is applied by coextrusion or coating.
10. The wrapping foil of at least one of the preceding claims, characterized in that the oxygen index (LOI) is above 20%, preferably above 23%, and more preferably above
25 27%.
11. Use of a wrapping foil of at least one of the preceding claims for bundling, protecting, labeling, insulating or sealing ventilation pipes or wires or cables and for sheathing cable harnesses in vehicles or field coils for picture tubes.